

REMARKS

Applicant respectfully requests reconsideration of this application as amended. Claims 1, 3 through 5, 7 through 15, and 17 through 21 are pending in this application. Claims 2 and 16 were previously cancelled. Claims 6 and 22 are currently cancelled. Claims 19 through 22 were previously added.

SECTION 103 ISSUES

In the Office Action, at paragraph 3, claims 1, 3 through 11, 15, and 17 through 21 stand rejected under 35 U.S.C. §103(a) as being anticipated by Huang, et al., U.S. patent number 6,131,134 (hereinafter *Huang*), in view of Rafferty et al., U.S. patent number 6,141,719 (hereinafter *Rafferty*). Applicant respectfully traverses.

In the Office Action, in reference to claim 1, it is stated that “Rafferty discloses a USB selector switch, wherein a logically detaching control signal....is sent from a far end....of a data bus.” Applicant submits that the special data bus 14 of *Rafferty* Figure 3 is not the same as the data bus shown between “downstream” (far end) device 22 and “upstream” (near end) device 16. As *Rafferty* discloses two separate data busses, applicant submits that any such signaling cannot be the “detach control signal sent from a far end of said data bus” to the switch at the near end of the data bus.

However, in order to more distinctly and clearly claim the present invention, applicant has amended independent claim 1 to now recite in pertinent part “controlling said switch with a detach control signal sent on a detach control signal wire separate from data transmission wires of said data bus...” (Applicant’s emphasis added.) This recitation in the method of claim 1 makes it clear that whatever control signals may be present in *Rafferty*, they are not going from a far end of a data bus to the near end of the same data bus over a separate wire not including any data transmission wires. Applicant therefore believes that amended independent claim 1 is allowable over the cited *Huang* and *Rafferty* references.

Applicant has also amended claim 1 to now recite in pertinent part “influencing said detach control signal with a wake-up signal sent on a wake-up signal wire separate from said data transmission wires of said data bus from said near end of said data bus to said far end of said data bus.” This more clearly shows how the detach control signal is responsive to the wake-up signal *sent from the near end (upstream) to the far end (downstream)* of the data bus. The Office Action rejects claim 6 stating that “*Huang* discloses said detach control signal is responsive to a wake-up signal” at col. 3, lines 17-20. Applicant fails to see any separate wake-up signal disclosed at the cited portion of *Huang*. What is described at col. 3, lines 17-20 is signals send from a first data bus (non-PnP interface) to a second data bus (USB interface). However, *Huang* does not disclose any wake-up signal *on a separate wake-up signal wire* being sent from the near end of the data bus to the far end *of the same*

*data bus*. Applicant submits that amended claim 1 is further allowable over *Huang* for this additional reason.

Because claims 3 through 5, and 7, depend from independent claim 1, and because applicant believes that independent claim 1 is now allowable, applicant further believes that claims 3 through 5, and 7, are now allowable.

In the Office Action at paragraph 3, in reference to claim 8, it was admitted that *Huang* did not teach that said switch receives a detach control signal sent from a far end of said data bus. However, the Office Action then submitted that “Rafferty discloses a USB selector switch, wherein a logically detaching control signal....is sent from a far end....of a data bus.” Applicant submits that the special data bus 14 of *Rafferty* Figure 3 is not the same as the data bus shown between “downstream” (far end) device 22 and “upstream” (near end) device 16. As *Rafferty* discloses two separate data busses, applicant submits that any such signaling cannot be the “detach control signal wire of a data bus coupled to said switch at a near end of said data bus, to receive a detach control signal sent from a far end of said data bus...”

However, in order to more distinctly and clearly claim the present invention, applicant has amended independent claim 8 to now recite in pertinent part “a detach control signal wire *separate from data transmission wires* of a data bus coupled to said switch *at a near end of said data bus*, to receive a detach control signal *sent from a far end of said data bus...*” (Applicant’s emphasis added.) This recitation in the apparatus of claim 8 makes it clear that whatever control signals may be

present in *Rafferty*, they are not going from a far end of a data bus to the near end of *the same data bus* over a separate wire not including any data transmission wires. Applicant therefore believes that amended independent claim 8 is allowable over the cited *Huang* and *Rafferty* references.

Applicant has also amended claim 8 to now recite in pertinent part “a wake-up signal wire separate from said data transmission wires of said data bus to send a wake-up signal from said near end of said data bus to said far end of said data bus...” This more clearly shows how the detach control signal is responsive to the wake-up signal *sent from the near end (upstream) to the far end (downstream)* of the data bus. The Office Action rejects claim 10, stating that “*Huang* discloses said detach control signal is generated responsively to a wake-up signal” at col. 3, lines 17-20. Applicant fails to see any separate wake-up signal disclosed at the cited portion of *Huang*. What is described at col. 3, lines 17-20 is signals send from a first data bus (non-PnP interface) to a second data bus (USB interface). However, *Huang* does not disclose any wake-up signal *on a separate wake-up signal wire* being sent from the near end of the data bus to the far end of *the same data bus*. Applicant submits that amended claim 8 is further allowable over *Huang* for this additional reason.

Because claims 9 through 15, and 17, depend from independent claim 8, and because applicant believes that independent claim 8 is now allowable, applicant further believes that claims 9 through 15, and 17, are now allowable.

In the Office Action, in reference to claim 15, it is stated that "Rafferty discloses a USB selector switch, wherein a logically detaching control signal....is sent from a far end....of a data bus." Applicant submits that the special data bus 14 of *Rafferty* Figure 3 is not the same as the data bus shown between "downstream" (far end) device 22 and "upstream" (near end) device 16. As *Rafferty* discloses two separate data busses, applicant submits that any such signaling cannot be the "means for controlling said switch with a detach control signal sent from a far end of said data bus".

However, in order to more distinctly and clearly claim the present invention, applicant has amended independent claim 1 to now recite in pertinent part "means for controlling said switch with a detach control signal sent on a detach control signal wire separate from data transmission wires of said data bus..." (Applicant's emphasis added.) This recitation in the apparatus of claim 15 makes it clear that whatever control signals may be present in *Rafferty*, they are not going from a far end of a data bus to the near end of *the same data bus* over a separate wire not one of any data transmission wires. Applicant therefore believes that amended independent claim 15 is allowable over the cited *Huang* and *Rafferty* references.

Applicant has also amended claim 15 to now recite in pertinent part "means for influencing said detach control signal with a wake-up signal sent on a wake-up signal wire separate from said data transmission wires of said data bus from said near end of said data bus to said far end of said data bus." This more clearly shows how the detach control signal is responsive to the wake-up signal *sent from the*

*near end (upstream) to the far end (downstream)* of the data bus. The Office Action rejects claim 21 stating that “Huang discloses said detach control signal is sent in response to a wake-up signal” at col. 3, lines 17-20. Applicant fails to see any separate wake-up signal disclosed at the cited portion of *Huang*. What is described at col. 3, lines 17-20 is signals sent from a first data bus (non-PnP interface) to a second data bus (USB interface). However, *Huang* does not disclose any wake-up signal *on a separate wake-up signal wire* being sent from the near end of the data bus to the far end *of the same data bus*. Applicant submits that amended claim 15 is further allowable over *Huang* for this additional reason.

Because claims 16 through 21 depend from independent claim 15, and because applicant believes that independent claim 15 is now allowable, applicant further believes that claims 16 through 21 are now allowable.

In the Office Action, in reference to claim 19, it is stated that “Rafferty discloses a USB selector switch, wherein a logically detaching control signal....is sent from a far end....of a data bus...which includes a detach control signal wire.” Applicant submits that the special data bus 14 of *Rafferty* Figure 3 is not the same as the data bus shown between “downstream” (far end) device 22 and “upstream” (near end) device 16. As *Rafferty* discloses two separate data busses, applicant submits that any such signaling cannot be the “detach control wire of said data bus coupled to said switch” at the near end of the data bus.

However, in order to more distinctly and clearly claim the present invention, applicant has amended independent claim 19 to now recite in pertinent part “a detach control signal wire separate from data transmission wires of said data bus coupled to said switch to receive a detach control signal *sent from said far end of said data bus to said near end of said data bus...*” (Applicant’s emphasis added.) This recitation in the system of claim 19 makes it clear that whatever control signals may be present in *Rafferty*, they are not going from a far end of a data bus to the near end of *the same data bus* over a separate wire not including any data transmission wires. Applicant therefore believes that amended independent claim 19 is allowable over the cited *Huang* and *Rafferty* references.

Applicant has also amended claim 19 to now recite in pertinent part “a wake-up control signal wire separate from said data transmission wires of said data bus to send a wake-up signal from said near end of said data bus to said far end of said data bus...” This more clearly shows how the detach control signal is responsive to the wake-up signal *sent from the near end (upstream) to the far end (downstream) of the data bus*. The Office Action rejects claim 21 stating that “*Huang* discloses said detach control signal is sent in response to a wake-up signal” at col. 3, lines 17-20. Applicant fails to see any separate wake-up signal disclosed at the cited portion of *Huang*. What is described at col. 3, lines 17-20 is signals send from a first data bus (non-PnP interface) to a second data bus (USB interface). However, *Huang* does not disclose any wake-up signal *on a separate wake-up signal wire* being sent from the near end of the data bus to the far end of *the same data bus*. Applicant submits that

amended claim 19 is further allowable over *Huang* for this additional reason.

Because claims 20 and 21 depend from independent claim 19, and because applicant believes that independent claim 19 is now allowable, applicant further believes that claims 20 and 21 are now allowable.

SUMMARY

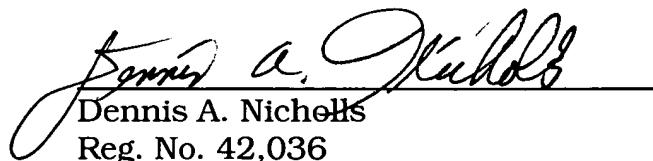
Applicant believes that all pending claims are allowable over the cited art of record. Applicant therefore respectfully requests that all pending claims 1, 3 through 5, 7 through 15, and 17 through 21 be allowed.

If the Examiner finds any remaining impediment to the prompt allowance of these claims that could be clarified with a telephone conference, the Examiner is respectfully requested to contact applicant's representative, Dennis A. Nicholls, at (408) 765-5789.

Authorization is hereby given to charge our Deposit Account No. 02-2666 for any charges that may be due.

Respectfully submitted,

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